

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P334994

Luminaire Tested: **S125IP-S1205U935-4F0-1E-UDD-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334994
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125IP-S1205U935-4F0-1E-UDD-4
Description: DEFINE 5 INDIRECT LED LUMINAIRE, BATWING OPTIC
PENDANT MOUNT, 1205 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3729.1 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

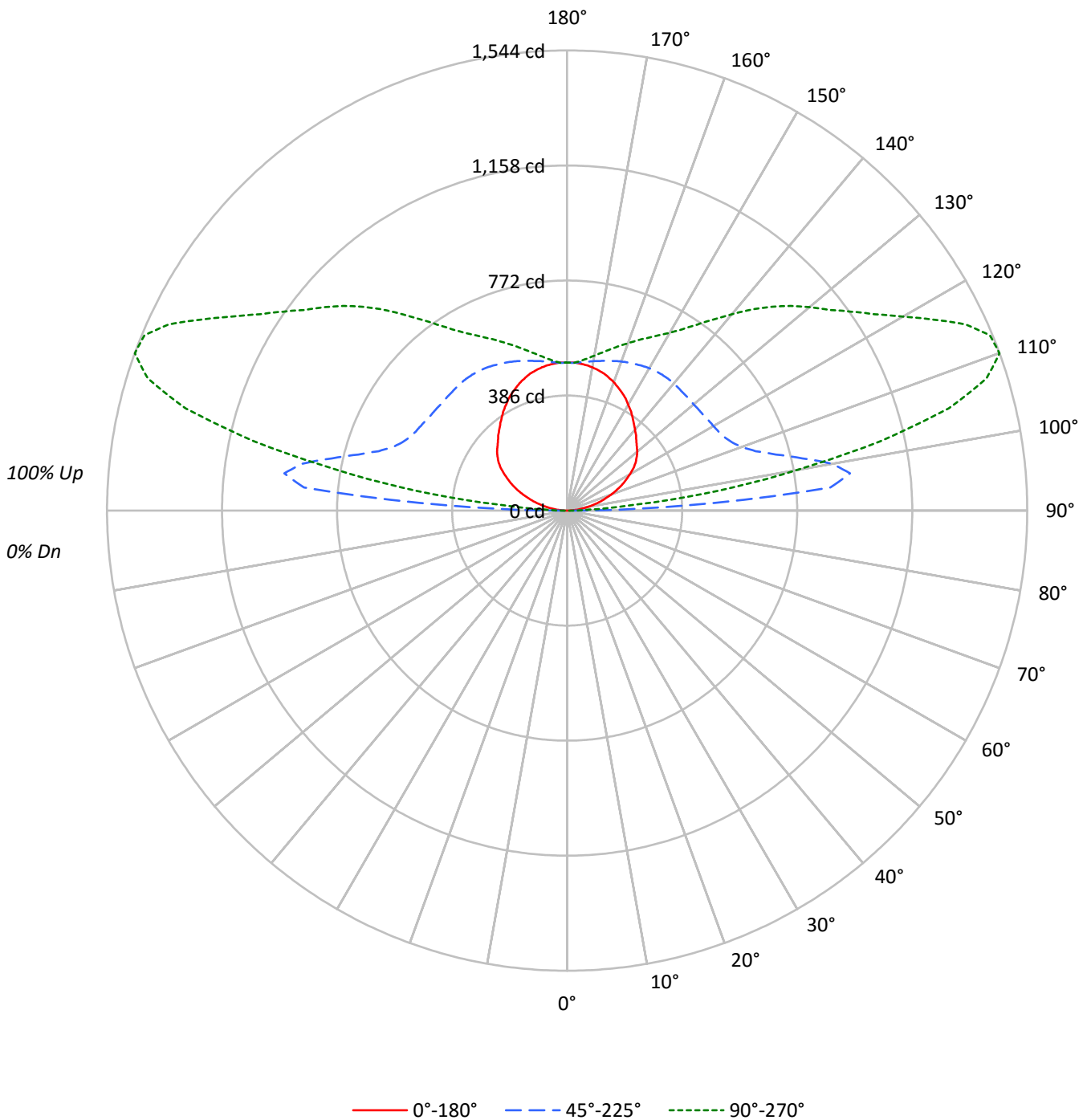
Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	2.0	0.1
90°-100°	361.0	9.7
100°-110°	778.4	20.9
110°-120°	725.7	19.5
120°-130°	587.7	15.8
130°-140°	471.9	12.7
140°-150°	356.0	9.5
150°-160°	250.7	6.7
160°-170°	147.7	4.0
170°-180°	48.0	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.0	0.1
90°-120°	1865.0	50.0
90°-150°	3280.7	88.0
90°-180°	3727.0	99.9
0°-180°	3729.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	1	9	16	21	23	2
95°	33	98	886	402	235	34
105°	113	158	725	1428	1326	119
115°	202	244	582	1255	1477	199
125°	280	328	558	998	1164	249
135°	328	395	554	837	966	255
145°	382	438	556	693	762	240
155°	436	469	542	613	639	201
165°	476	489	520	552	560	134
175°	495	495	499	505	503	47
180°	496	496	496	496	496	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	1.0	2.0	4.0	6.0	8.0	10.0	11.0	13.0	14.0	16.0	17.0
92.5°	15.0	18.0	28.0	43.0	64.0	100.0	168.1	282.1	406.2	399.2	322.1
95°	33.0	34.0	42.0	53.0	75.0	120.1	227.1	447.2	723.3	886.4	867.4
97.5°	51.0	52.0	58.0	69.0	89.0	122.1	196.1	365.2	663.3	957.4	1083.5
100°	70.0	72.0	76.0	87.0	106.0	136.1	194.1	324.1	576.3	903.4	1153.5
102.5°	91.0	92.0	95.0	107.0	124.1	153.1	203.1	307.1	510.2	808.4	1111.5
105°	113.1	113.1	118.1	128.1	144.1	172.1	216.1	305.1	472.2	725.3	1012.5
107.5°	134.1	136.1	141.1	149.1	166.1	191.1	234.1	312.1	452.2	663.3	918.4
110°	157.1	159.1	163.1	172.1	187.1	213.1	254.1	323.1	444.2	622.3	840.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	180.1	182.1	185.1	194.1	209.1	234.1	273.1	337.2	444.2	598.3	782.3
115°	202.1	204.1	207.1	216.1	231.1	256.1	293.1	351.2	447.2	582.3	743.3
117.5°	222.1	225.1	228.1	237.1	254.1	278.1	313.1	367.2	452.2	573.3	717.3
120°	242.1	245.1	249.1	258.1	275.1	300.1	335.1	383.2	460.2	567.3	696.3
122.5°	263.1	265.1	268.1	277.1	296.1	321.1	356.2	401.2	467.2	562.3	678.3
125°	280.1	282.1	287.1	296.1	315.1	341.2	374.2	417.2	475.2	558.2	662.3
127.5°	294.1	297.1	303.1	314.1	334.1	360.2	392.2	432.2	484.2	556.2	647.3
130°	307.1	310.1	318.1	331.1	352.2	378.2	409.2	447.2	492.2	554.2	632.3
132.5°	317.1	321.1	331.1	346.2	368.2	394.2	425.2	460.2	501.2	554.2	620.3
135°	328.1	332.1	344.2	360.2	381.2	408.2	439.2	472.2	509.2	554.2	611.3
137.5°	342.2	345.2	356.2	372.2	393.2	421.2	449.2	481.2	517.2	555.2	602.3
140°	354.2	357.2	369.2	385.2	404.2	431.2	460.2	490.2	522.2	556.2	596.3
142.5°	368.2	370.2	381.2	397.2	415.2	440.2	467.2	495.2	525.2	557.2	591.3
145°	382.2	384.2	394.2	408.2	426.2	449.2	475.2	500.2	527.2	556.2	586.3
147.5°	397.2	398.2	407.2	420.2	436.2	457.2	480.2	503.2	528.2	554.2	581.3
150°	410.2	412.2	419.2	432.2	446.2	463.2	485.2	506.2	528.2	551.2	575.3
152.5°	424.2	425.2	431.2	442.2	455.2	470.2	490.2	508.2	527.2	547.2	568.3
155°	436.2	436.2	442.2	452.2	462.2	476.2	493.2	509.2	525.2	542.2	560.2
157.5°	447.2	447.2	452.2	461.2	470.2	481.2	496.2	510.2	523.2	537.2	553.2
160°	458.2	457.2	461.2	468.2	476.2	485.2	498.2	510.2	520.2	532.2	544.2
162.5°	467.2	466.2	470.2	476.2	482.2	489.2	500.2	509.2	517.2	526.2	536.2
165°	476.2	474.2	477.2	482.2	486.2	492.2	500.2	508.2	514.2	520.2	528.2
167.5°	482.2	481.2	483.2	486.2	489.2	493.2	500.2	506.2	509.2	514.2	520.2
170°	488.2	487.2	488.2	490.2	492.2	495.2	500.2	504.2	506.2	509.2	513.2
172.5°	492.2	490.2	491.2	493.2	494.2	495.2	499.2	502.2	502.2	503.2	506.2
175°	495.2	493.2	494.2	495.2	495.2	495.2	498.2	500.2	499.2	499.2	500.2
177.5°	497.2	495.2	495.2	496.2	495.2	495.2	497.2	498.2	496.2	496.2	497.2
180°	496.2	496.2	496.2	496.2	496.2	496.2	496.2	496.2	496.2	496.2	496.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	18.0	19.0	20.0	22.0	22.0	22.0	23.0	23.0
92.5°	217.1	156.1	116.1	97.0	81.0	78.0	76.0	74.0
95°	719.3	567.3	444.2	360.2	289.1	259.1	251.1	235.1
97.5°	1031.5	910.4	786.4	666.3	606.3	554.2	527.2	515.2
100°	1230.5	1181.5	1078.5	974.4	905.4	833.4	796.4	780.3
102.5°	1297.6	1347.6	1311.6	1249.6	1174.5	1128.5	1087.5	1076.5
105°	1252.6	1389.6	1433.6	1422.6	1390.6	1357.6	1337.6	1325.6
107.5°	1160.5	1341.6	1447.6	1491.7	1500.7	1495.7	1485.7	1475.7
110°	1056.5	1246.6	1387.6	1472.7	1517.7	1536.7	1543.7	1543.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	974.4	1152.5	1295.6	1399.6	1470.7	1506.7	1526.7	1535.7
115°	908.4	1063.5	1200.5	1309.6	1387.6	1435.6	1463.7	1476.7
117.5°	862.4	999.4	1119.5	1222.5	1301.6	1351.6	1379.6	1387.6
120°	826.4	946.4	1056.5	1144.5	1218.5	1266.6	1293.6	1301.6
122.5°	799.4	908.4	1003.4	1084.5	1148.5	1191.5	1218.5	1225.5
125°	773.3	875.4	962.4	1034.5	1090.5	1131.5	1153.5	1163.5
127.5°	746.3	843.4	925.4	993.4	1044.5	1081.5	1102.5	1106.5
130°	721.3	809.4	887.4	952.4	1002.4	1035.5	1055.5	1061.5
132.5°	696.3	777.3	846.4	908.4	958.4	991.4	1009.4	1016.5
135°	675.3	744.3	808.4	865.4	909.4	942.4	960.4	966.4
137.5°	656.3	714.3	769.3	819.4	859.4	890.4	907.4	914.4
140°	641.3	688.3	734.3	776.3	813.4	839.4	854.4	859.4
142.5°	628.3	666.3	704.3	739.3	769.3	790.4	804.4	808.4
145°	617.3	648.3	679.3	706.3	730.3	747.3	758.3	762.3
147.5°	606.3	632.3	657.3	678.3	698.3	712.3	719.3	721.3
150°	597.3	619.3	638.3	656.3	671.3	683.3	687.3	688.3
152.5°	587.3	606.3	623.3	636.3	648.3	657.3	661.3	662.3
155°	577.3	593.3	607.3	618.3	628.3	635.3	638.3	639.3
157.5°	567.3	581.3	592.3	601.3	609.3	615.3	618.3	618.3
160°	557.2	567.3	577.3	584.3	591.3	596.3	598.3	597.3
162.5°	546.2	555.2	563.3	569.3	574.3	578.3	578.3	578.3
165°	536.2	543.2	549.2	554.2	558.2	560.2	560.2	560.2
167.5°	526.2	531.2	536.2	540.2	542.2	544.2	543.2	543.2
170°	518.2	521.2	524.2	526.2	528.2	529.2	529.2	528.2
172.5°	509.2	512.2	514.2	515.2	515.2	517.2	515.2	514.2
175°	503.2	503.2	505.2	505.2	505.2	506.2	504.2	503.2
177.5°	498.2	499.2	499.2	499.2	498.2	499.2	496.2	496.2
180°	496.2	496.2	496.2	496.2	496.2	496.2	496.2	496.2

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